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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,825	08/25/2006	Hiroshi Nakanishi	1035-651	1234
23117 7590 11/27/2007 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			EXAMINER	
			HARRINGTON, ALICIA M	
ARLINGTON,	, VA 22203	ART UNIT PAPER NUM		PAPER NUMBER
			. 2873	
			MAIL DATE	DELIVERY MODE
			11/27/2007	DADED

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)				
	10/590,825	NAKANISHI, HIROSHI				
Office Action Summary	Examiner	Art Unit				
	Alicia M. Harrington	2873				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	J. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status	·	· .				
1) Responsive to communication(s) filed on 25 A	ugust 2006.					
	action is non-final.					
3) Since this application is in condition for allowa	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application	,					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.	•				
10)⊠ The drawing(s) filed on <u>25 August 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prio	rity documents have been receive	ed in this National Stage				
application from the International Burea	, ,,,					
* See the attached detailed Office action for a list of the certified copies not received.						
•		· .				
Attachmant/al						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 0806. 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Information Disclosure Statement

The Examiner has considered the information disclosure statement filed on 8/25/06.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 6, 14-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Canon (JP 03-184019).

Regarding claims 1 - 6, 14-18 Cannon discloses a LCD display panel wherein the display panel includes a micro lens array including a group of micro lenses corresponding to the pixels, the pixels on the display panel are disposed in a matrix manner and along a first direction and a second direction orthogonal to the first direction, and a pitch of the pixels in the first direction is longer than a pitch of the pixels in the second direction, and a directivity of the light traveling in the first direction is higher than a directivity of the light traveling in the second direction (see figures 1 and 2) and abstract.

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7- 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Canon.

Regarding claim 7, Canon discloses the claimed invention except for the focal point is closer to the micro lens than to the pixel. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include this feature, since it has been held that where the general conditions of the claim are disclosed in the prior art, discovering an optical workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Regarding claim 8, Canon discloses the claimed invention except for the method of manufacturing the microlens. However, in a product by process claim, the patentability is based on the product and the not the process, see MPEP 2113. In addition, it would have been obvious to one of ordinary skill in the art to apply a photosensitive resin, expose the resin and develop it, since these are notoriously well know method steps for producing a micro lens array,-The Examiner takes official notice to this fact.

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Claims 9-13 rejected under 35 U.S.C. 103(a) as being unpatentable over Canon in view of Hitachi (JP 08-313859).

Regarding claims 9-13, Canon discloses a liquid crystal display. However, Canon fails to specifically disclose the polarization features. Hitachi teaches s linear polarization plate (see abstract) where the main polarization direction is parallel to a transmission axis on the display panel side. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include these feature, since LCD with polarization plates are a well known structure and Hitachi teaches improved brightness.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Chiba (US 7,027,227) discloses examples of developing and exposing a photosensitive resin.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M. Harrington whose telephone number is 571 272 2330. The examiner can normally be reached on Monday - Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 571 272 2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Alicia M Harrington
Primary Examiner
Art Unit 2873

AMH